

I claim:

1. A method of cold forming a finished battery terminal of two different materials comprising:

5 cold forming a lead or lead alloy slug to form a stop and a chamber with a chamber opening therein;

inserting a male fastener having a head and a shank in the chamber of the slug of material until the shank extends out of the chamber opening in the slug and the head of the fastener is in retained engagement with the shoulder; and

10 cold forming the slug with the fastener head therein until the fastener head is embedded in the slug of material.

2. The method of claim 1 including the step of cold forming an annular fill-in lip around the chamber opening.

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3. The method of claim 2 including the step of cold forming the annular lip radially and laterally into the chamber to encapsulate the fastener head therein.

4. The method of claim 1 including the step of inserting the fastener into the chamber
20 until a fastener end face is beyond a plane extending through an exterior surface of the battery terminal.

5. The method of claim 4 including the step of forming a further chamber with an annular extension extending around an opening into the further chamber.

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6. The method of claim 5 including the step of forming a set of concentric acid rings in the annular extension around the offset opening.

7. The method of claim 1 including the step of cold forming an extension for carrying a portion of the chamber and the opening on a top face of the battery terminal and for cold forming an extension for carrying acid rings on a bottom face of the slug.

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8. The method of claim 1 wherein the step of placing a male fastener in the opening comprises placing a non-lead or non-lead alloyed metal bolt in the battery terminal.

9. The method of claim 1 including the step of inserting the male fastener comprises
10 placing the male fastener with a protrusion thereon and cold forming the lead or lead slug
alloy until the cold formed lead engages the protrusion to prevent rotation of the metal
fastener as the metal fastener is secured to an external female connector.

10. A partially cold formed battery terminal comprising:
15 a cold formed lead slug, said cold formed slug having a chamber extending
therethrough;
a stop located in said slug;
a male fastener, said male fastener having a head retainable from passing through
the chamber by the stop and a shank extendible out of the chamber in the slug for securing
20 a connector thereto; and
a terminal portion for attachment to a battery.

11. The partially cold formed battery terminal of claim 10 including an annular
extension extending from a top face of the lead slug.

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12. The partially cold formed battery terminal of claim 11 including a second annular
extension extending from a bottom face of the lead slug.

13. The partially cold formed battery terminal of claim 12 including a set of cold formed acid rings located on the second annular extension.
- 5 14. The partially cold formed battery terminal of claim 10 wherein the male fastener includes a thread thereon.
- 10 15. A two part cold formed battery terminal comprising:
a lead or lead alloy slug, said slug having a cold formed opening and a cold formed fastener stop therein; and
a male fastener, said male fastener having a shank extending at least partially out of said cold formed opening to permit attaching a female connector thereto;
- 15 16. The two part cold formed battery terminal of claim 15 wherein the male fastener includes threads.
- 20 17. The two-part cold formed battery terminal of claim 15 wherein said slug includes an offset extension.
- 25 18. The two-part cold formed battery terminal of claim 17 wherein the offset extension includes acid rings.
19. The two-part cold formed battery terminal of claim 15 wherein the male fastener includes a head with a protrusion extending thereon to prevent rotation of said male fastener.

20. The two-part cold formed battery terminal of claim 15 wherein the male fastener includes threads for attaching to a female with the threads positioned external to the battery terminal.